

13-Channel High-definition DVR

explorer
DX-HD

Serious about bus surveillance?

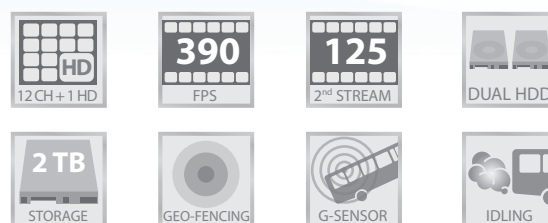
This top-of-line mobile digital video recorder is packed with powerful features for bus operators who need real-time viewing or have future plans to expand their on-board security operations. Plus, you get the benefit of one additional high-definition video channel for applications where image quality is essential.



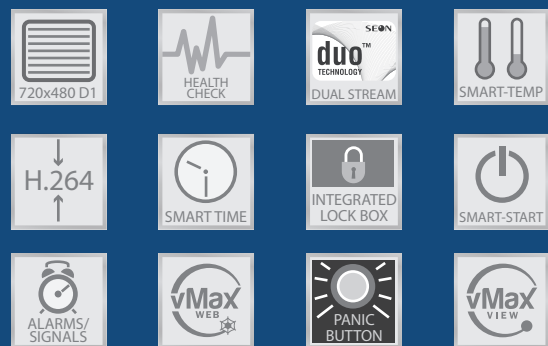
Key Features & Benefits

- **Record up to 12 video channels with audio plus 1 high-definition channel** at 30 FPS on all channels simultaneously (720 x 480 on analog channels; premium image quality at 1280 x 720 on HD channel)
- **Eliminate camera system down-time** by monitoring DVR and HDD status with Health-Check
- **Maximize your video retention time** with up to 2 TB of storage
- **Get incident alerts and critical data on vehicle handling** with a built-in inertia sensor — ideal for accident reconstruction or driver monitoring
- **Dual streaming technology records two information streams**; one for hi-res playback and one for real-time viewing over a cellular network at 10 FPS per channel
- **Fail-safe design for added reliability** with dual hard drives
- **Supports geo-fencing**, which delivers alerts when a vehicle deviates from a geographic boundary
- **Record vehicle speed & location and easily download footage** with this GPS- and WiFi-ready DVR
- **Panic and diagnostics buttons** provide an easy way to indicate an incident or verify the system is functioning

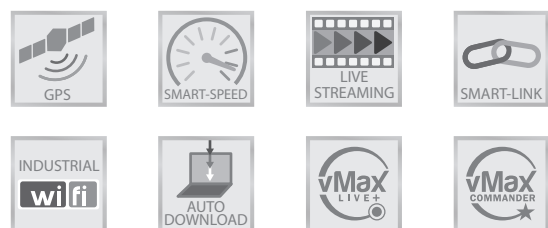
Included features:



Included features on all Seon DVRs:



Optional add-ons:



Accessories:

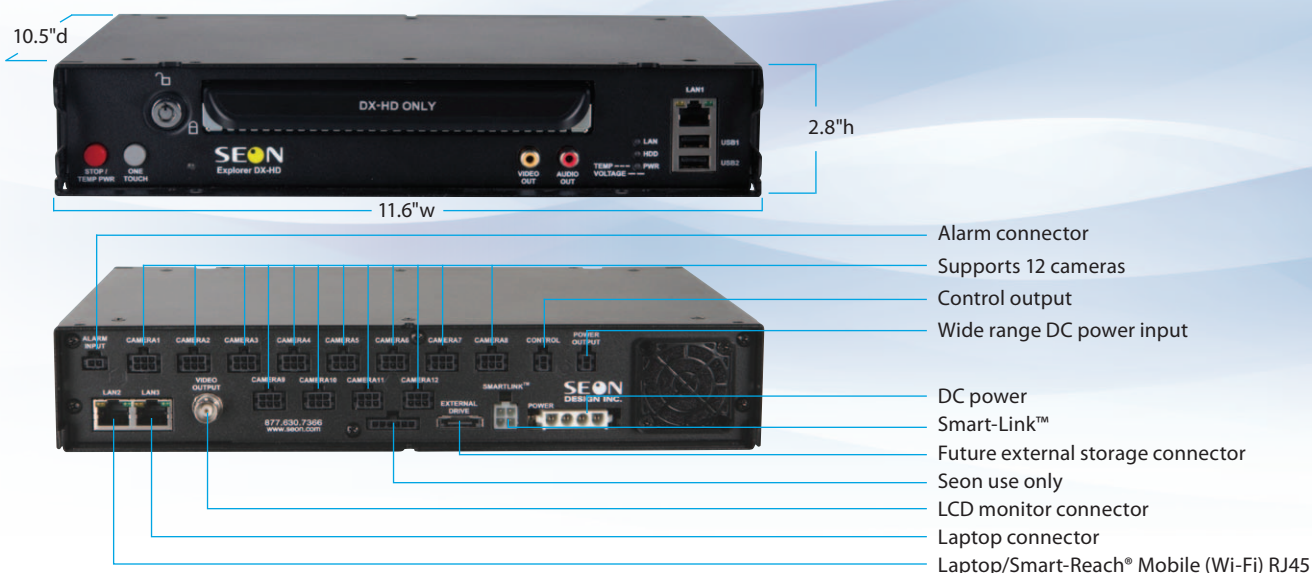


SEON

Explorer® DX-HD Spec Sheet

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Video	
Recording Channels	12 analog video, 1 HD video, 12 audio channels
Video Resolution	1280 x 720 HD (720P) progressive scan up to 30 FPS 720 x 480 D1 at 30 FPS on all analog channels (390 FPS aggregate for all channels)
Recording Rate Main Stream	30 FPS at 1280 x 720 on HD channel 30 FPS on all analog video channels at D1 resolution (390 FPS aggregate)
Recording Rate Second Stream	HD channel – 1 or 5 FPS independent of the main stream Analog channels – on/off, FPS and resolution configurable – secondary stream independent (doesn't share resources with the main stream)
Compression	H.264
Quality Settings	Adjustable, 4 levels
Auto Overwrite	Selectable on/off protected alarms
User Interface	OSD with remote or mouse, web browser, vMax® software suite
Timer	12 programmable timers
Delay On/Off	Selectable 0 to 4 hours
On-Screen Display	Voltage, time & date, HDD size, % full, alarm count, internal temperature
Dual Streaming	Capable of sending low-bandwidth video images live over a broadband (cellular) network
Storage	
Media	Removable media cartridge supports dual mobile hard drives for plenty of storage space
Fail Safe Design	In case of HDD failure switches recording to the other HDD
Capacity	Up to 2 TB
Extended Capacity	eSATA port for additional external storage drive
Input/Output	
Alarms	4 alarm inputs
Signals	10 signal inputs
Network Interface	3-port Ethernet switch (TCP/IP)
Event/Diagnostic Button	An indicator panel that marks events for quick searches, auto downloads and displays DVR status
Video Out	1 BNC

Smart Features	
Smart-Temp™	Ensures the DVR stays at its optimal operational temperature
Smart-Start™	Safeguards the DVR against electrical spikes with vehicle start-up voltage protection
Smart-Link™ Module	Makes DVR installation quick and easy using a wiring consolidator
Health Check	Monitors recorder, attached cameras and HD drive health status
Wi-Fi Ready	Supports the Smart-Reach industrial mobile Wi-Fi solution
GPS Ready	Records vehicle speed and location with optional GPS receiver; enables synchronized mapping when used with vMax® software
Geo-fencing	Uses GPS technology to set a geographical boundary for a vehicle; receive an alert if it deviates
Inertia Sensor	Includes integrated 3 axis G-sensor
Electrical	
Voltage Range	8 to 32 VDC
Transient Protection	600 W per signal input, 1.5 kW power input
Configuration Backup	Settings retained up to 10 years
Mechanical/General	
Dimensions (H x W x D)	2.8 x 11.6 x 10.5 in (72 x 294 x 267 mm)
Weight	6.6 lbs (3 kg)
Environmental	
Operating Temperature	-30 to 50°C (-22 to 122°F)
Approvals	
Emissions	FCC
Safety	UL